

Meeting Minutes – Oct. 10th, 2013

Sent Dr. Ahmed an email for getting traffic camera data

Create a VM where the open CV drivers and FTD and everything all work – Kyle

Use Virtual Box as the VM client

Open CV Progress

- The plan is still to have it working for snapshot – Frank and Mitch
- We need to get stock footage from NIATT for this weekend
- Cal-Tech has an image database that we could maybe use (We will have access to them)

FPGA Block Diagram

- Do we have any ideas about how we are going to address the rows and columns

Snapshot Day #1

- Pin slides up to a poster board
- Have a laptop for our open CV simulations
- What goals are, what the project is, and what we've done already
- Invite Ahmed to be there at Snapshot/have him come to our meeting
 - Have a slideshow ready
 - Be able to explain our project, what we have done so far, etc.

Technical Issues with Image sensor

- We won't have linear relationship between farther pixels and nearer pixels
- May quadruple the far distance pixel size which will mean the distance is 4x greater for those far pixels than the near pixels
- Reduce distance to 300 meters
- Limited to 10 mm² for the pixel array because that is how much money we have
- The chip will be 20 μm on one end by 4 μm of the other end
- Not sure on how many pixels will be in the array

Could we maybe do less lanes just for a proof of concept? Or only look at incoming traffic rather than outgoing traffic as well?

Gaining additional funding – get Google funding? They are paying only 150k which would really allow to do a lot more. Mainly just get this concept running and then get more money for next time.

Have another project coming next January (2015) which is about 150k budget range that evaluates different technologies for traffic control. Ours included. We can extend that funding for another year.

Action Items

Look for database for Traffic Camera data

- Shoot Line street and get footage that way
- Perimeter Drive and look at traffic up from where it curves
- May find a place around the Kibbie Dome area

Talk to Amos (Bartlow) about getting video footage from NIATT

Make a time this weekend to work on Open CV stuff, try and get it going for snapshot